

- Online databases are maintained at each experiment and are critical for data taking.
- Offline databases are maintained in the Feynman Computing Center and are critical for data processing and analysis.
- High Availability for both online and offline database systems is required.

- Database Applications Overview

- Detector and physics data

- Detector Calibration
 - Trigger lists
 - Data Luminosity
 - Detector Slow Controls
 - Run and Run Quality information

- Data Handling (The SAM Database)

tablespace and corresponding indexes
their own tablespaces.

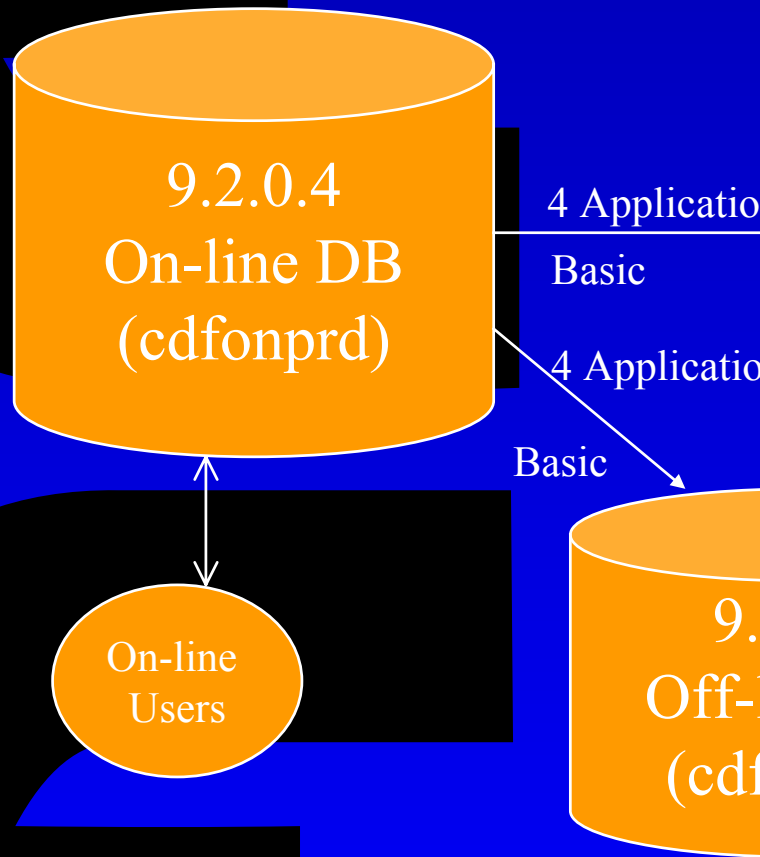
ization and Backup Performance

over 24 partitions and a new partition

ent Partition
rowth

terprise Manager (OEM, by Oracle
developed tool.

- One replica is used by Farm
other READ ONLY users.
- A key feature of CDF replica
another for high reliability.
- CDF is planning to migrate t
from version 9.2.x release s



Database was through the
(upper right) or Data Handling

Application to transfer all online
databases (See poster 'Oracle

scalable, approach which is
provide high performance
information (Lower right).

iki

- CORBA interface to Client apps
- Memory (L1) and Disk (L2) caching
- Connection management to Database
- Server has common code base with SAM DB server

Database Copy

OFFLINE

Online Host -- DEC
Front End -- 68k
Level 3 Nodes -- NT
Offline Host -- Sun
Local Host

Datalogger,

ENSTORE

C++ Header and
Stubs

FroNti

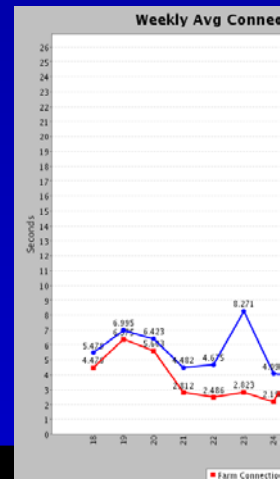
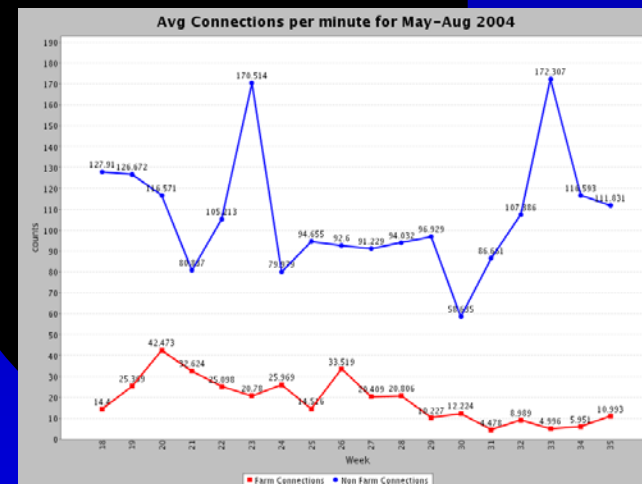
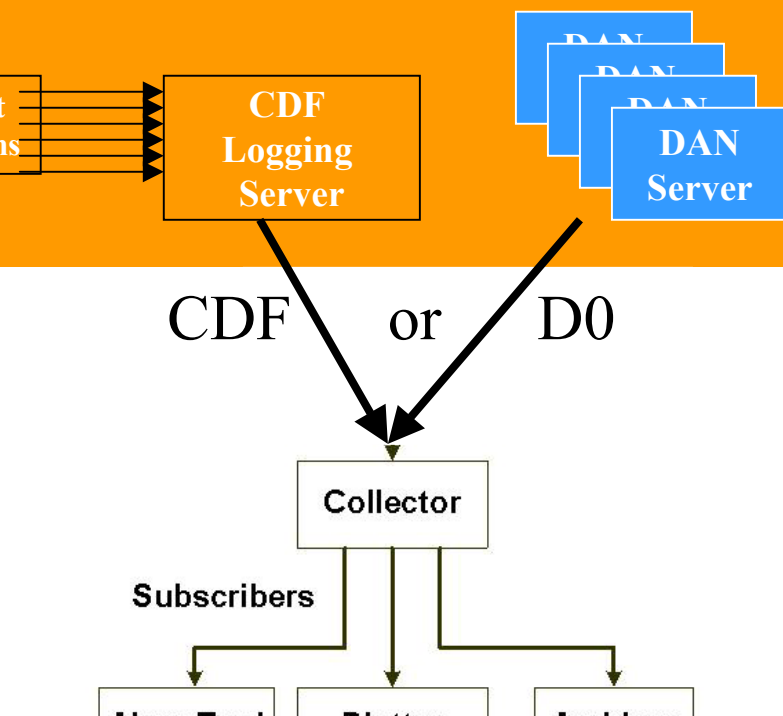
is a crucial component of our Database Opera

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ss and
erface

Average c
for Datab
connection

Number of
connections per
minute for CDF

DB Monitor Overview



Query counts per week for
D0 SAM station server

Number of
hour for D0
Non-Farm

